# ALBERTA PRECISION LABORATORIES

Leaders in Laboratory Medicine

DATE:	24 April 2024
TO:	Oncologists, Province Wide
FROM:	Edmonton Zone Immunohistochemistry Laboratory, Alberta Precision Laboratories (APL)
RE:	PD-L1 Testing in Stages II/IIIA Non-Small Cell Lung Carcinoma (NSCLC)

# PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

#### Key Message

- PD-L1 biomarker immunohistochemistry (IHC) testing to determine patient eligibility of Atezolizumab in resected Stages II to IIIA Non-Small Cell Lung Carcinoma (NSCLC) is now available in the Edmonton Zone IHC Lab.
- Samples:

Samples Accepted	Samples Not Accepted
<ul> <li>Samples must be formalin fixed for 6-72 hours.</li> <li>Surgical specimens</li> </ul>	<ul> <li>Specimens fixed in any fixatives other than formalin (including alcohol based)</li> <li>Material for cytology cell blocks (these were not included in the analytical method comparison or clinical outcome studies)</li> <li>Decalcified bone specimens</li> </ul>

• Requests for testing by Oncologist only

#### Background

- Impower010 clinical trial demonstrated significantly improved disease-free survival with adjuvant Atezolizumab on Stages II to IIIA NSCLC that are negative for EGFR and ALK mutations. The companion diagnostic test, PD-L1 NSCLC (SP263), is now being offered in Alberta.
- Testing will be performed in the Edmonton Zone IHC Lab with interpretation being performed in both Edmonton and Calgary.
- PD-L1 biomarker immunohistochemistry (IHC) testing to determine patient eligibility for Pembrolizumab in advanced non-small cell lung carcinoma (NSCLC) has been available for ordering within Alberta since December 12, 2016, and will continue to be available.

#### Action Required

Disease	Testing Performed	How to request
Stages II/IIIA NSCLC- Squamous	PD-L1 biomarker testing performed	In Epic: Use "Request for Additional Testing for Pathology Samples" Select:



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		Requested Tests	PD-L1 P	
			Q	
		PD-L1 Testing	Breast Triple Negative - Pembrolizumab - 22C3	
			Head and Neck Squamous Cell Carcinoma - Pembrolizumab - 22C3	
			Lung NSCLC - Pembrolizumab - 22C3 - Advanced Stage	
			Lung NSCLS - Atezolizumab - SP263 - Early Stage	
			Upper GI - Nivolumab - 28-8	
			Uterine Cervix - SCC and Adenocarcinoma - Pembrolizumab - 22C3	
			Other (specify in comment box to the right)	
		Requisition:	lmonton Zone IHC Lab. Fax: 780-429-2819	
Stages II/IIIA	EGFR/ALK-	In Epic:		
NSCLC- Non-	5A4/PD-L1	-	for Additional Testing for Pathology Samples"	
squamous	biomarker	Select:		
(Adenocarcinoma)	testing algorithm is	Requested Tests	Lung Carcinoma Mutation Analysis (MP-C,E)	
	performed			
		Staging:	Lung NSCLC-Pembrolizumab -22C3 (Stages IIIB/IV)	
		Staging.		
			Lung NSCLC- Atezolizumab - SP263 (Adjuvant therapy Stages II/IIIA)	
		Deguiaitien		
		Requisition:	Imentan Malagular Dathalagu Lahi Fayi780, 407, 8500	
			0,	
			Imonton Molecular Pathology Lab: Fax:780-407-8599 algary Consult Desk: Fax 403-944-4748	

# Effective April 25, 2024

# **Questions/Concerns**

Edmonton:

- IHC: Dr. Gilbert Bigras- Director IHC Laboratory, <u>Gilbert.Bigras@albertaprecisionlabs.ca</u> 780-432-8445
- Molecular: Dr. Cheryl Mather <u>Cheryl.Mather@albertaprecisionlabs.ca</u> 780-407-2717

# Calgary:

- IHC: Paul Klonowski Associate Medical Director; Director IHC Laboratory, Calgary 403-770-3430
- Dr. Martin Hyrcza Martin.Hyrcza@albertaprecisionlabs.ca 403-944-4759
- Molecular: Dr. Adrian Box Adrian.Box@albertahealthservices.ca

# Approved by

• Dr. Carolyn O'Hara, Interim Chief Medical Laboratory Officer, Alberta Precision Laboratories

Effective September 1, 2023, APL has become the sole provider of all public lab services in Alberta. As a result, community lab services formally provided by DynaLIFE Medical Labs will become the responsibility of Alberta Precision Labs (APL). This change impacts all zones.